

What is claimed is:

1. A method of treating or preventing fungal infections in humans of 12 years and older in need of such treating or preventing which comprises orally administering an effective amount of posaconazole in divided doses two to four times a day to produce an arithmetic mean steady state average maximum plasma concentration of posaconazole of at least about 300 ng/mL to at least about 520 ng/mL
2. The method of claim 1 wherein the arithmetic mean steady state maximum plasma concentration ( $C_{max}$ ) of posaconazole of at least about 300 ng/mL to about 320 ng/mL is produced at a mean time( $T_{max}$ ) after the initial dose in the range of about 12 hours to about 21 hours.
3. The method of claim 1 wherein the arithmetic mean steady state maximum plasma concentration ( $C_{max}$ ) of at least about 500 ng/mL to about 520 ng/mL of posaconazole is produced at an arithmetic mean  $T_{max}$  of about 21 hours to about 28 hours.
4. The method of claim 1 wherein a plot of the plasma concentration of posaconazole over time yields an arithmetic mean AUC(0-24hr) for posaconazole in the range of about 7,700 ng.hr/mL to about 12,400 ng.hr/mL.
5. The method of claim 1 wherein the fungal infection in need of treating and/or preventing is an invasive fungal infection.
6. The method of claim 1 wherein the humans in need of treating or preventing are immuno-compromised patients.
7. The method of claim 1 wherein the humans in need of treating or preventing are neutropenic patients.

8. The method of claim 1 wherein the humans in need of treating or preventing are fasted patients.
9. The method of claim 1 wherein the amount of posaconazole administered is about 200 mg four times a day.
10. The method of claim 1 wherein the amount of posaconazole administered is about 400 mg two times a day.
11. A method of treating or preventing a fungal infection in humans of 12 years and older in need of such treating or preventing which comprises orally administering an effective amount of posaconazole in divided doses two to four times a day to produce an arithmetic mean steady state minimum plasma concentration ( $C_{min}$ ) of posaconazole of at least about 50 ng/mL at about 48 hours after the initial dose of the effective amount of posaconazole.
12. The method of claim 11 wherein the human in need of treating or preventing is an immuno-compromised patient.
13. The method of claim 11 wherein the human in need of treating or preventing is a neutropenic patient.
14. The method of claim 11 wherein the human in need of treating or preventing is a fasted patient.
15. A method treating or preventing fungal infections in humans of 12 years and older in need of such treating or preventing which comprises orally administering about 200 mg of posaconazole four times a day to produce an arithmetic mean steady state average maximum plasma concentration of posaconazole of at least about 500ng/mL .
16. The method of claim 15 wherein the human in need of treating and/or preventing is an immuno-compromised patient.

17. The method of claim 15 wherein the human in need of treating and/or preventing is a neutropenic patient.

18. The method of claim 15 wherein the human in need of treating and/or preventing is a fasted patient.

19. A method treating or preventing fungal infections in a human of 12 years and older in need of such treating and /or preventing which comprises orally administering about 200 mg of posaconazole four times a day to produce a population mean area under the concentration-time (0-24hr) curve of of posaconazole of about 12 mcg.hr/mL.

20. The method of claim 19 wherein the human in need of treating and/or preventing is an immuno-compromised patient.

21. The method of claim 19 wherein the human in need of treating and/or preventing is a neutropenic patient.

22. The method of claim 19 wherein the human in need of treating and/or preventing is a fasted patient.

23 A method of treating or preventing fungal infections in humans of 12 years and older in need of such treating or preventing which comprises orally administering an effective amount of posaconazole in divided doses two to four times a day to produce an arithmetic mean steady state average maximum plasma concentration of posaconazole that exceeds the majority of the Minimum Inhibitory Concentrations needed to kill 90% ("MICs<sub>90</sub>") of the clinically relevant pathogenic fungi.

24. A method treating or preventing fungal infections in a human of 12 years and older in need of such treating and /or preventing which comprises orally administering about 200 mg of posaconazole four times a day to produce an average plasma concentration of posaconazole of about 0.5 mcg.hr/mL.

25. The method of claim 24 wherein the human in need of treating or preventing is an immuno-compromised patient.
26. The method of claim 24 wherein the human in need of treating or preventing is a neutropenic patient.
27. The method of claim 24 wherein the human in need of treating or preventing is a fasted patient.
28. A method of treating or preventing a fungal infection in a human of 12 years of age and older in need of such treating or preventing which comprises orally administering to such a human about 200 mg of posaconazole four times a day until the patient is considered stable by an attending clinician and thereafter orally administering about 400 mg of posaconazole twice a day until the fungal infection is eradicated as shown by standard antifungal testing procedures.
29. A method of treating or preventing fungal infections in a human of 12 years of age and older in need of such treating or preventing which comprises orally administering to such a human about 200 mg of posaconazole four times a day.
30. A method treating or preventing fungal infections in a human of 12 years of age and older in need of such treating or preventing which comprises orally administering to such a human a total dose of about 800 mg of posaconazole a day in three divided doses.
31. A method treating or preventing fungal infections in a human of 12 years of age and older in need of such treating or preventing which comprises orally administering to such a human about 400 mg of posaconazole two times a day.